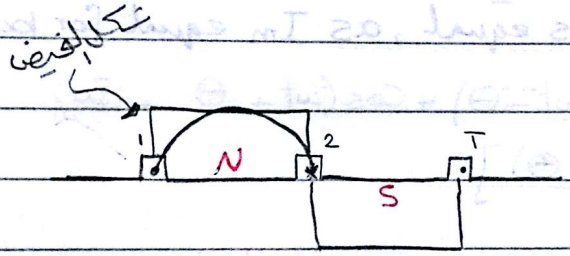
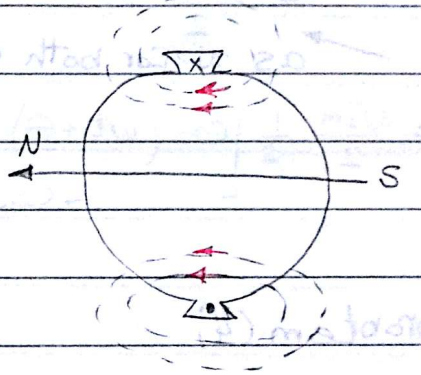
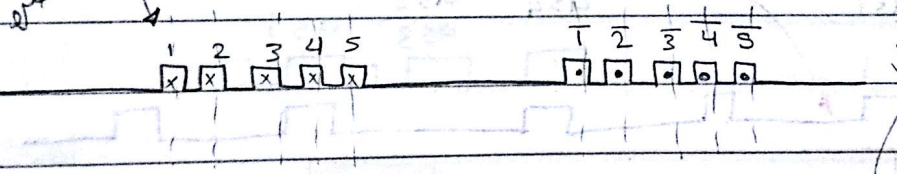
Sec:10 sheet (5)

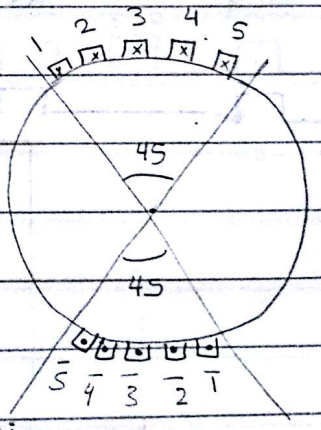
problem (2)





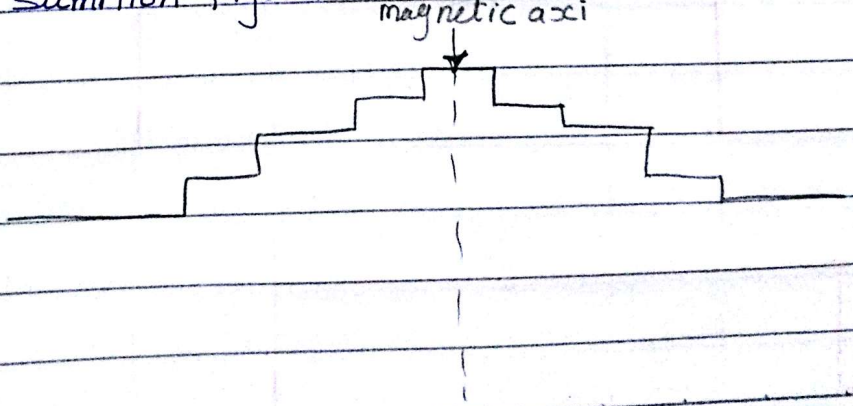
"For one coil"





For coil (1) $\longrightarrow$ Peak $= \frac{Nci}{2}$

The magnetic axi is where the max mmf in the sumition Figuer



problem (3)

$$mmf_1 = \frac{Ni_1}{2}\cos\theta$$

same (N)

$$mmf_2 = \frac{Ni_2}{2}\cos(\theta - 90)$$

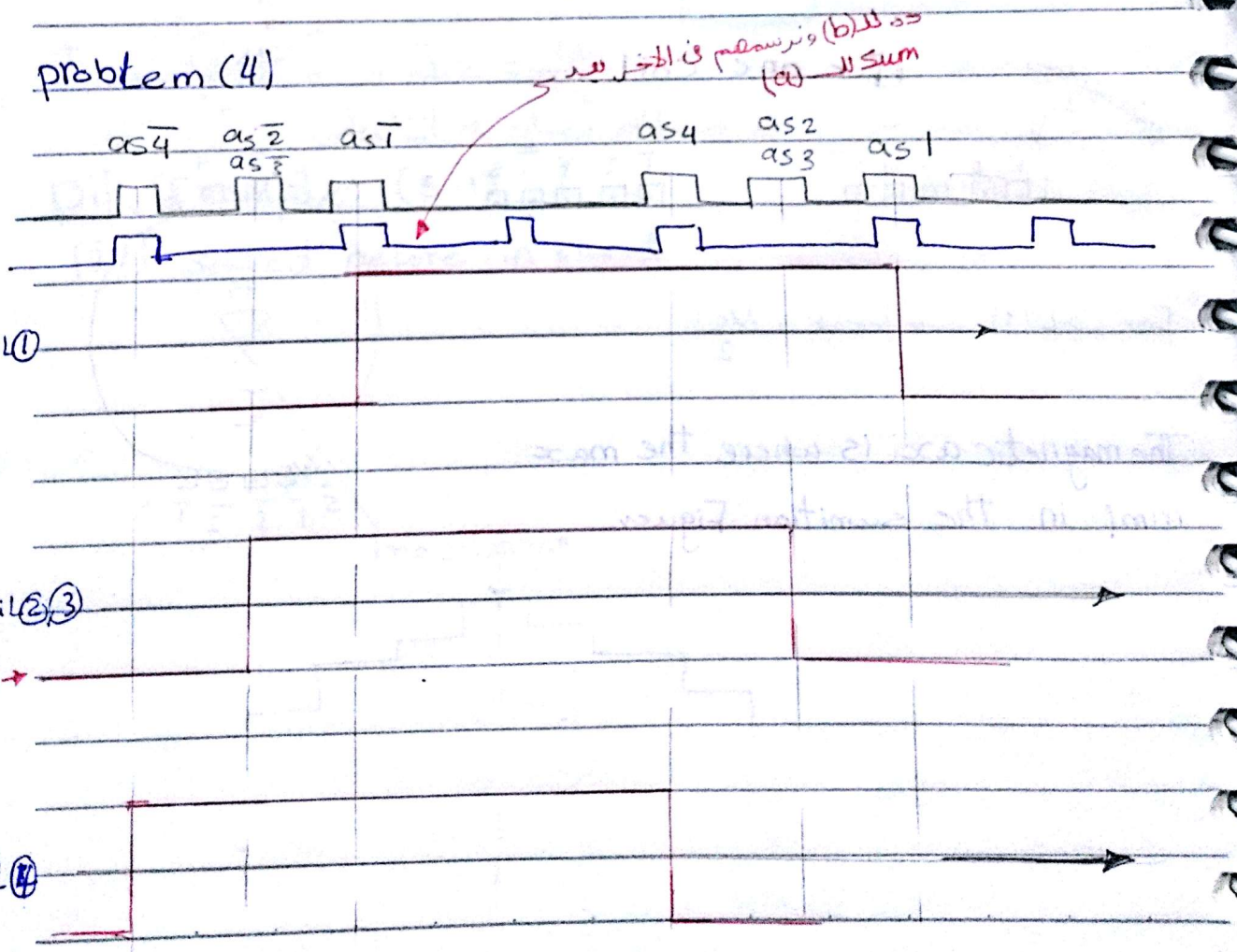
$$mmf_T = \frac{Ni_1}{2}\cos\theta + \frac{Ni_2}{2}\cos(\theta - 90)$$

$$= \frac{NI_m}{2}\cos\omega t\cos\theta + \frac{NI_m}{2}\cos(\omega t - 90)\cos(\theta - 90)$$

as N for both coils is equal, as Im equal for both

$$= \frac{NI_m}{2}\,\frac{1}{2}\left[\cos(\omega t + \theta) + \cos(\omega t - \theta) + \cos(\omega t + \theta - 180) + \cos(\omega t - \theta)\right]$$

problem (4)



sum

اذا طلب في الامتحان mmf الكلية. بعد ما نرسم mmfat
ونرسم mmbt نجمع الرسمتين مع بعض